

WHAT IS CLAIMED IS:

1. A hybrid telecommunications switch comprising:

a switching matrix;

a first resource coupled to the switching matrix and controlled by a first application;

5 a second resource coupled to the switching matrix and controlled by a second application;

a resource emulation module operable to identify a first virtual address corresponding to the first resource and a second virtual address corresponding to the second resource, the resource emulation module further operable to receive a call request from the first application  
10 specifying the first resource and the second virtual address and, in response to the call request, to generate a call indication specifying the first virtual address and the second resource and to communicate the call indication to the second application; and

a switching matrix controller operable to connect the first resource and the second resource using the switching matrix.

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2. The hybrid telecommunications switch of Claim 1, wherein the resource emulation module is further operable to receive a first successful setup message from the second application specifying the second resource and the first virtual address and, in response to the first successful setup message, to generate a second successful setup message  
20 specifying the second virtual address and the first resource and to communicate the second successful setup message to the first application.

3. The hybrid telecommunications switch of Claim 1, further comprising:

a first call control module operable to receive an initial call indication and to forward  
25 the call indication to the first application, the first call control module further operable to receive a setup request from the first application and to forward the setup request to the resource emulation module as the call request; and

a second call control module operable to receive the call indication from the resource emulation module and to forward the call indication to the second application, the second call  
30 control module further operable to receive a second call setup request from the second application and to forward the second call setup request to the resource emulation module.

4. The hybrid telecommunications switch of Claim 3, wherein the first call control module is further operable to communicate with the first application using a first control protocol, and the second call control module is further operable to communicate with the second application using a second control protocol.

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5. The hybrid telecommunications switch of Claim 1, wherein the first application comprises a legacy application, and the second application comprises a call agent.

6. The hybrid telecommunications switch of Claim 1, further comprising:  
10 a plurality of time division multiplexed resources coupled to the switching matrix and controlled by the first application; and  
a plurality of packet-based resources coupled to the switching matrix and controlled by the second application.

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7. The hybrid telecommunications switch of Claim 6, wherein the first resource is one of the time division multiplexed resources, and the second resource is one of the packet-based resources.

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8. The hybrid telecommunications switch of Claim 6, further comprising a second plurality of time division multiplexed resources controlled by the second application.

9. A method for integrated telephony switching comprising:

receiving a call request from a first application specifying a first resource coupled to a switching matrix and a second virtual address, wherein the first application controls the first resource;

5 identifying a second resource coupled to the switching matrix that corresponds to the second virtual address;

determining a first virtual address corresponding to the first resource;

generating a call indication specifying the first virtual address and the second resource; and

10 communicating the call indication to a second application that controls the second resource.

10. The method of Claim 9, further comprising:

15 receiving a first successful setup message from the second application specifying the second resource and the first virtual address;

in response to the first successful setup message, generating a second successful setup message specifying the second virtual address and the first resource;

communicating the second successful setup message to the first application; and

20 connecting the first resource and the second resource using the switching matrix.

11. The method of Claim 9, further comprising:

receiving an initial call indication from a telephony device coupled to the first resource; and

25 forwarding the call indication to the first application.

12. The method of Claim 9, further comprising communicating with the first application using a first control protocol and communicating with the second application using a second control protocol.

30 13. The method of Claim 9, wherein the first application comprises a legacy application, and the second application comprises a call agent.

14. The method of Claim 9, wherein the first resource is a time division multiplexed resource, and the second resource is a packet-based resource.

15. Software for integrated telephony switching, the software embodied in a computer readable medium and operable when executed to perform the steps of:

receiving a call request from a first application specifying a first resource coupled to a switching matrix and a second virtual address, wherein the first application controls the first  
5 resource;

identifying a second resource coupled to the switching matrix that corresponds to the second virtual address;

determining a first virtual address corresponding to the first resource;

generating a call indication specifying the first virtual address and the second  
10 resource; and

communicating the call indication to a second application that controls the second resource.

16. The software of Claim 15, further operable when executed to perform the  
15 steps of:

receiving a first successful setup message from the second application specifying the second resource and the first virtual address;

in response to the first successful setup message, generating a second successful setup message specifying the second virtual address and the first resource;

20 communicating the second successful setup message to the first application; and  
connecting the first resource and the second resource using the switching matrix.

17. The software of Claim 15, operable when executed to perform the steps of:

receiving an initial call indication from a telephony device coupled to the first  
25 resource; and

forwarding the call indication to the first application.

18. The software of Claim 15, operable when executed to perform the steps of  
communicating with the first application using a first control protocol and communicating  
30 with the second application using a second control protocol.

19. The software of Claim 15, wherein the first application comprises a legacy application, and the second application comprises a call agent.

20. The software of Claim 15, wherein the first resource is a time division  
5 multiplexed resource, and the second resource is a packet-based resource.

21. A hybrid telecommunications switch comprising:

means for receiving a call request from a first application specifying a first resource coupled to a switching matrix and a second virtual address, wherein the first application controls the first resource;

5 means for identifying a second resource coupled to the switching matrix that corresponds to the second virtual address;

means for determining a first virtual address corresponding to the first resource;

means for generating a call indication specifying the first virtual address and the second resource; and

10 means for communicating the call indication to a second application that controls the second resource.